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$$\frac{dM_2'''}{dx} = (z - l_1) \left[\frac{w(l_2 + l_1) - wx}{l_2}\right] \qquad (35)$$

From (35) we see that the increment of M_2''' is negative, as x varies from $l_1 + l_2$ to l; hence, M_2''' is greatest for $x = l_1 + l_2$.

$$\frac{dM_2'''}{dz} = (q + w)z - R_1 = o.$$

$$z = (1 + \frac{l_1}{l_2}) \left[ql + w(l_1 + l_2)\right] - \frac{ql_2 + w(l_1 + l_2)^2}{2l_2} \qquad (36)$$

The value of z in (36), and the corresponding value of x substituted in (34), will give the value of (M_2''')max.

$$M_3''' = (q + w)\left(\frac{l - z}{2}\right)^2 \text{ and } (M_3''')\text{max.} = (q + w)\frac{l_1^2}{2} \qquad (37)$$

THE EXTRACTIVE YIELD OF VARIOUS IMPORTANT VEGETABLE MEDICINAL SUBSTANCES.

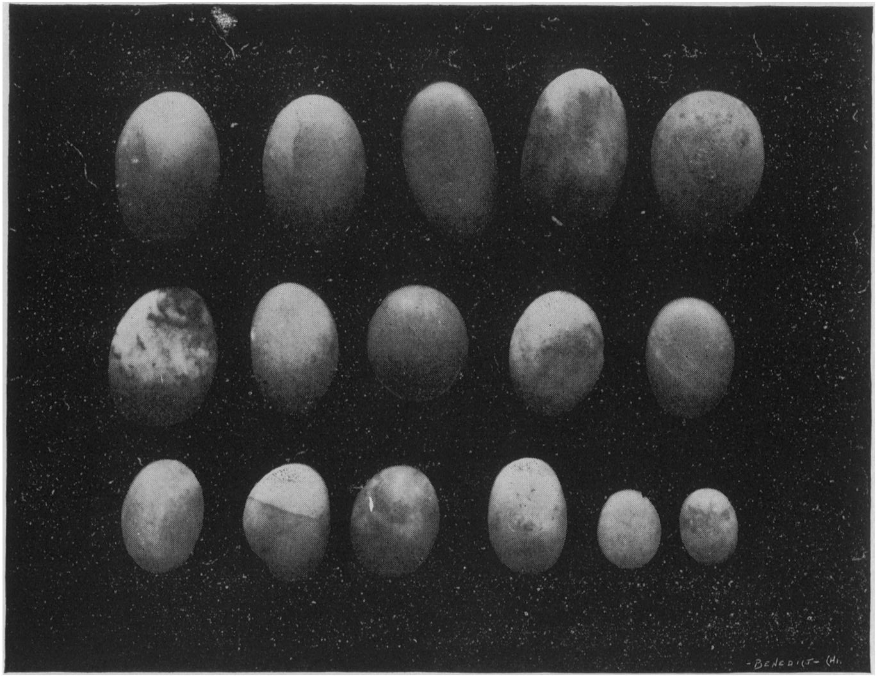
BY PROF. L. E. SAYRE, UNIVERSITY OF KANSAS.

The amount of extractive yielded by a fibrous drug, while it does not afford a sure test of its value, furnishes a data by which the working pharmacist and physician may judge of the quality of the material in hand. It also gives a means by which such adulterations as insoluble woody fiber may be detected. There have not been to my knowledge any reliable tables made out of this kind, and at the suggestion of a few medical colleagues, I have prepared the following table, which is the result of my own examination of the standard drugs of the market.

Table showing the percentage of extractive, dried at 100° C., contained in prominent medicinal vegetable substances of the market.

(The solvents employed being those of the United States Pharmacopœia.)

	Per Cent.
Aconite	14.15
Apocynum cannabinum	14.40
Belladonna leaves	22.70
Burdock root	24.00
Buchu leaves	23.30
Belladonna root	9.65
Colchicum root	19.45
Cannabis indica	13.00
Coca leaves	24.70
Conium	28.60
Digitalis leaves	34.10
Gelseminum root	11.60
Hydrastis	23.20
Hyoscyamus leaves	19.50
Hydrangia	9.06
Ipecac root	12.45
Convalluria	33.50
Mezereum	11.80
Nux vomica	13.70
Podophyllum	13.80
Poke root	17.12
Pleurisy root	25.20
Stramonium seed	14.10
Veratrum	18.00
Viburnum opulus	15.20
Yerba santa	31.95
Juborandi	23.58



PEBBLES FROM PLESIOSAUR STOMACH.
From photograph — natural size.